

# LAND RECONSTRUCTION, ABANDONED MINED LAND CONSTRUCTION SPECIFICATION

## 1. SCOPE

The work shall consist of furnishing materials and installing all components necessary, for the purpose of reconstructing abandoned mined land, as outlined in this specification and the drawings.

Construction work covered by this specification shall not be performed between December 1<sup>st</sup> and the following March 15<sup>th</sup>, unless the site conditions and/or construction methods to be used have been reviewed and approved by the Engineer or his/her Representative.

## 2. MATERIALS

All materials used shall conform to the quality and grade noted on the plans, set forth in Section 8, or as otherwise listed below:

### a. TOPSOIL:

Soil material, suitable for final use, shall be free of all debris and rocks over six inches (6") in diameter. The contractor shall be responsible for assessing the consistency, nature, and quality of the soil material to be used. Soil testing shall be required for any material in question, of the intended use.

The moisture content of the topsoil material shall be maintained within the limits required to:

- prevent bulking or dilatance of the material under the action of the hauling and spreading equipment,
- prevent the adherence of the material to the treads and tracks of the equipment, and
- to ensure the crushing and blending of the topsoil clods into a reasonably homogeneous mass.

### b. GEOTEXTILES:

Geotextile fabrics shall be used where appropriate as a means of erosion control, subsurface drainage, stabilization, or as a separator between aggregate or access road material and soil to prevent migration of soil particles from the subgrade, through the aggregate or fill material. Geotextiles shall meet the requirements of PennDot specifications, Section 735, for the appropriate class defined in Section 212. Certification from the manufacturer shall be provided by the contractor that the geotextile meets these requirements.

### c. AGGREGATE:

Aggregates used for drainfill or access road material shall meet the requirements of PennDot Specifications, Section 703.2, Type A, Coarse Aggregate. The aggregate shall be durable and obtained from sources listed in PennDot Bulletin 14. The size and gradation shall be as specified in Section 8 or on the drawings.

## 3. SITE PREPERATION

All trees, brush, fences, and other debris shall be cleared so as not to interfere with the reclamation of the abandoned mine land. All material removed by the clearing and grubbing operation shall be disposed of by either burying, burning, chipping, off-site disposal, or any combination thereof.

Materials that contain high concentrations of heavy metals must be removed and buried. These soils shall be buried to a depth below the root zone, or suitable kinds and amounts of soil amendments must be added.

#### **4. SAFETY**

All positive responses from the Pennsylvania One Call System should be shown on the drawings and the Pennsylvania One Call serial number and date noted on the plans. It is the Contractor's or Landowner's responsibility to Contact the affected utility for marking at the time of construction.

#### **5. EARTH FILL, GRADING, AND SHAPING**

Soil surfaces shall be graded to the lines or sections shown on the drawings and/or staked in the field. Earth fill material that is required to be imported to the site shall be similar to or better than, and placed at a density equal to, that of the adjacent soils; except that areas to be vegetated shall receive topsoil.

Earth fill material shall be spread in successive layers of not more than one foot (1') thick, unless otherwise specified in Section 8. Each layer shall be compacted with a minimum of two passes of the hauling and spreading equipment.

Final grading shall provide for positive drainage of surface water. All areas shall be shaped to blend with the adjacent landscape, unless otherwise specified in Section 8.

#### **6. EROSION AND POLLUTION CONTROL**

Construction operations shall be carried out in such a manner that erosion and air and water pollution will be minimized. State and local laws concerning pollution abatement must be followed.

Depending on the slope of the final grading, berms or diversions may need to be cut into the slope at intervals not to exceed every twenty five feet (25') in elevation difference. The runoff from the upslope watershed must be analyzed and any diversions and/or water courses shall be sized and out-letted accordingly.

#### **7. VEGETATION**

Vegetation shall be established at the locations shown on the drawings and/or staked in the field. Unless otherwise approved by the Engineer, the application of seed, soil amendments, fertilizer, and mulch shall be done by mechanical methods that ensure uniform coverage.

Soil amendments shall be specified in Section 8, or approved by the Engineer.

All seeding shall be in accordance with the Critical Area Planting Standard and Specifications (342).

#### **8. ADDITIONAL CONDITIONS WHICH APPLY TO THIS PROJECT ARE:**